

US EPA RECORDS CENTER REGION 5



466384

Monthly Oversight Report 35  
ACS NPL Site  
Griffith, Indiana  
November 1, 2003 - November 28, 2003



# BLACK & VEATCH

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Black & Veatch Special Projects Corp.

USEPA/RAC VII  
American Chemical Services RAO (057-ROBF-05J7)

BVSPC Project 46526  
BVSPC File C.3  
December 9, 2003

Mr. Kevin Adler  
U.S. Environmental Protection Agency  
77 W. Jackson Boulevard (SR-6J)  
Chicago, Illinois 60604-3590

Subject: Monthly Oversight Summary Report  
No. 35 for November 2003

Dear Mr. Adler:

Enclosed is the Monthly Oversight Summary Report No. 35 for November 2003 for the American Chemical Services Superfund Site in Griffith, Indiana.

If you have any questions, please call (312-683-7856) or email ([campbelllm@bv.com](mailto:campbelllm@bv.com)).

Sincerely,

BLACK & VEATCH Special Projects Corp.

Larry M. Campbell, P.E.  
Site Manager

Enclosure

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**Monthly Oversight Summary Report No. 35**  
**ACS Superfund Site WA57, 46526.238**

**Reporting Period:** Month of November (November 1 - November 28, 2003)

**BVSPC O/S Dates:** November 11 and 20, 2003

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	4	Respondent's General Contractor
US Environmental Protection Agency	1	Federal Regulatory Agency
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Austgen	2	Electrical Contractor
Ryan Construction	2	General Contractor
Independent Environmental Services	3	Tank Cleaning Contractor
Dave's Tree Service	5	Landscaping Contractor
Simalabs	1	GWTP Sampling Contractor

## Construction Activities

### Major Activities:

- Dave's Tree Service trimmed trees and vegetation adjacent to the perimeter fence surrounding the Off-Site Containment Area.
- Independent Environmental Services cleaned the air diffusers in the aeration/equalization tank T-102 under a confined space entry permit.
- Ryan Construction began modifying the piping associated with the scrubber for Thermal Oxidizer Unit 1.
- Austgen Electric performed miscellaneous upgrades to the control systems in the groundwater treatment plant.
- Montgomery Watson Harza replaced a temperature probe in Thermal Oxidizer Unit 2.
- Montgomery Watson Harza temporarily ceased operating the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system for 5 days during the reporting period.
- Montgomery Watson Harza reported that Thermal Oxidizer Unit 2 shut down because of sediment buildup from fouling in the heat exchanger.

- Montgomery Watson Harza resampled residential wells PW-A and PW-Y.
- Montgomery Watson Harza held the construction coordination meeting on November 20, 2003.

#### **Activities Performed:**

Dave's Tree Service trimmed overgrown trees and shrubs and cut vegetation adjacent to the perimeter fence surrounding the Off-Site Containment Area (OFCA). The tree branches were chipped onsite. Montgomery Watson Harza (MWH) reported that the chips and other vegetation were disposed of offsite.

MWH reported that it observed high pressure in the distribution piping for the aeration/equalization tank T-102. Independent Environmental Services (IES) was onsite November 11, 2003, to inspect the distribution piping in the aeration/equalization tank T-102. Black & Veatch Special Projects Corp. observed IES dewater tank T-102, enter the confined space, remove, cleanout, and reinstall the diffusers, test the air flow through the diffusers, and reinstall the side access hatch cover. MWH had prepared and issued the confined space plan and permit. IES performed continual air monitoring, monitoring the oxygen level, lower explosive limit, and hydrogen sulfide concentrations during the confined space work. The IES specialist inside the tank wore appropriate personal protective equipment, including an air-purifying respirator, and was connected via rope and body harness to rescue personnel outside the tank. IES completed its work on November 11, 2003. MWH reported that it resumed operating the plant, and the pressure in the distribution piping in tank T-102 returned to normal levels.

Ryan Construction began modifying the piping associated with the scrubber for the Thermal Oxidizer Unit 1. MWH reported that the reconfigured piping will increase the performance of Thermal Oxidizer Unit 1. MWH also reported that Austgen Electric has performed miscellaneous upgrades to control systems in the groundwater treatment plant (GWTP) and will continue to upgrade the control system associated with Thermal Oxidizer Unit 1. MWH reported that it observed deterioration in the weld for the main inlet into the scrubber unit. MWH reported that Vidimos will be onsite in the upcoming weeks to install a new flange and repair the damage.

MWH operated the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) systems, processing vapors through Thermal Oxidizer Unit 2. MWH reported that a temperature probe malfunctioned on November 15, 2003. MWH replaced the probe on November 16, 2003, and resumed operating the system. MWH reported that it temporarily ceased operating the ONCA SBPA ISVE system on November 15, 2003, because the groundwater level in the ONCA SBPA ISVE system was high and water was entering the ISVE system. MWH increased the flowrate through the GWTP from 25 gpm to 37 gpm by focusing dewatering efforts on the dual phase ISVE extraction wells in the ONCA. MWH resumed operating the ONCA SBPA ISVE system on November 20, 2003.

MWH reported that Thermal Oxidizer Unit 2 shut down on November 26 and 28, 2003, because of high concentrations of particulate matter in the scrubber quench water. MWH reported that it believes that the particulate matter is from fouling within the heat exchanger unit in tank T-2 which heats the influent water to the activated sludge tank using the recirculation water from the thermal oxidizer scrubber. MWH reported that it continues to clean out the strainers on the scrubber and that it will monitor the buildup from

fouling to see if it is reducing over time or if further measures are needed to remove the particulate buildup in the water.

MWH resampled residential wells PW-A and PW-Y on Friday, November 14, 2003, for semivolatile organic compounds. MWH reported that pentachlorophenol was detected in the groundwater samples collected from these wells during the annual residential well sampling event conducted in September 2003.

MWH confirmed that the house at residential well PW-Y had been connected to city water and that the samples collected during the annual residential well sampling event (September 2003) and the resampling conducted on November 14, 2003, were actually samples from city water, not groundwater from the residential well.

MWH reported that it has observed increasing concentrations of benzene in the lower aquifer in the wetlands area based on recent groundwater monitoring results. MWH reported that it will conduct further investigation in this area in January or February 2004.

MWH held a construction coordination meeting on November 20, 2003. Other construction coordination meetings were not held during the reporting period because of the lack of activity at the site and the Thanksgiving holiday.

Attached are BVSPC weekly reports No. 140 through 143, correspondence, log book notes, and photographs of the daily activities. BVSPC's crew conducted oversight of the major field activities on November 11 and 20, 2003. BVSPC's crew attended one construction coordination meeting at the site on November 20, 2003.

**Topics of Concern:**

- MWH reported that pentachlorophenol was detected in two residential wells, PW-A and PW-Y, above the Maximum Contaminant Limit in the unvalidated analytical data from the annual residential well sampling event.

**Concern Resolution:**

- MWH resampled residential wells PW-A and PW-Y on Friday, November 15, 2003, for semivolatile organic compounds. .

**Upcoming Activities:**

- Ryan Construction to complete modifications to the piping for Thermal Oxidizer Unit 1.
- Vidimos to install a new flange on Thermal Oxidizer Unit 1's scrubber inlet.
- Austgen to complete upgrades to the control system for the GWTP and ISVE systems.
- MWH to investigate benzene levels in the lower aquifer below the wetlands area.
- MWH to remove and dispose of the investigation-derived waste drums from monitoring well installation activities.

Signature: Leigh Peters

Date: December 2, 2003

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**Weekly Oversight Summary Report No. 140**  
**ACS Superfund Site WA57, 46526.238**

**Reporting Period:** Week of November 3, 2003.

**BVSPC O/S Dates:** Cancelled because of limited site activities.

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	2	Respondent's General Contractor
Dave's Tree Service	5	Landscaping Contractor
Ryan Construction	2	General Contractor

**Construction Activities**

**Major Activities:**

- Dave's Tree Service trimmed trees and vegetation from the perimeter of the Off-Site Containment Area.
- Montgomery Watson Harza performed monitoring of the in-situ soil vapor extraction systems in accordance with its *Performance Standard Verification Plan*.
- Ryan Construction installed piping around the thermal oxidizer units.

**Activities Performed:**

Montgomery Watson Harza (MWH) reported that Dave's Tree Service was onsite on November 4, 2003, and began trimming trees and vegetation adjacent to the perimeter fence of the Off-Site Containment Area (OFCA). MWH reported that Dave's Tree Service will complete its work next week.

MWH reported that it performed system monitoring of the OFCA and On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) in-situ soil vapor extraction (ISVE) systems in accordance with its *Performance System Verification Plan*. MWH reported that the ISVE systems have been operating consistently since October 21, 2003, when the floor coating in the groundwater treatment plant (GWTP) was complete. Ryan Construction began modifying piping at the catalytic oxidizer and thermal oxidizer units in the GWTP.

MWH reported that the GWTP operated at 33 gpm, pumping water from the Barrier Wall Extraction System, Perimeter Groundwater Containment System, and monitoring well MW-56. MWH reported last week that it had difficulties pumping from monitoring well MW-10C and that it removed and inspected the pump in this well. MWH reported that it replaced the pump in MW-10C and resumed pumping from this well. MWH also reported that it has observed a high back pressure in the pipes in the aeration/equalization tank T-102. Tank T-102 was cleaned out during the GWTP maintenance activities conducted in late August 2003; however, the air diffusers were not cleaned out. MWH reported that it has scheduled

Independent Environmental Services (IES) to inspect the diffusers in tank T-102 on November 11, 2003. MWH reported that it will remove the water from this tank on November 10, 2003. IES will perform continuous air monitoring of the tank during its activities and will follow the proper practices for entering this permitted confined space.

**Topics of Concern:**

- MWH reported that pentachlorophenol was detected in two residential wells, PW-A and PW-Y, above the Maximum Contaminant Limit in the unvalidated analytical data from the annual residential well sampling event.

**Concern Resolution:**

- MWH reported that it will perform validation of the data and will propose resampling of these wells pending the results of the data validation. MWH reported that it will also determine if the home at PW-Y is connected to city water.

**Upcoming Activities:**

- Dave's Tree Service to complete removing overgrown trees and brush from the perimeter fence of the OFCA.
- IES to inspect the diffusers in tank T-102 on November 11, 2003.
- MWH to remove and dispose of the investigation-derived waste drums from monitoring well installation activities.
- Ryan Construction to continue modifying piping in the GWTP and thermal oxidizer units.

Signature: Leigh Peters

Date: November 10, 2003

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**Weekly Oversight Summary Report No. 141**  
**ACS Superfund Site WA57, 46526.238**

**Reporting Period:** Week of November 10, 2003.

**BVSPC O/S Dates:** November 11, 2003 (Mr. Campbell).

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	2	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	Oversight Contractor
Independent Environmental Services	3	Tank Cleaning Contractor
Dave's Tree Service	5	Landscaping Contractor
Austgen Electric	1	Control System Programmer
Ryan Construction	2	General Contractor

**Construction Activities**

**Major Activities:**

- Independent Environmental Services cleaned the diffusers in the aeration/equalization tank T-102.
- Ryan Construction began modifying the piping associated with the scrubber for Thermal Oxidizer Unit 1.
- Dave's Tree Service completed removing the overgrown trees and brush around the perimeter fence of the Off-Site Containment Area.
- Montgomery Watson Harza resampled residential wells PW-A and PW-Y.
- Montgomery Watson Harza replaced a temperature probe in Thermal Oxidizer Unit 2.

**Activities Performed:**

Montgomery Watson Harza (MWH) reported that it began observing high pressure in the distribution piping for the aeration/equalization tank T-102. Independent Environmental Services (IES) was onsite November 11, 2003, to inspect the distribution piping in the aeration/equalization tank T-102. Black & Veatch Special Projects Corp. (BVSPC) observed IES dewater tank T-102, enter the confined space, remove, cleanout, and reinstall the diffusers, test the air flow through the diffusers, and reinstall the side access hatch cover. MWH had prepared and issued the confined space plan and permit. IES performed continual air monitoring, monitoring the oxygen level, lower explosive limit, and hydrogen sulfide concentrations during the confined space work. The IES specialist inside the tank wore appropriate



personal protective equipment, including an air-purifying respirator, and was connected via rope and body harness to rescue personnel outside the tank. IES completed its work on November 11, 2003. MWH reported that it resumed operating the plant, and the pressure in the distribution piping in tank T-102 returned to normal levels.

Ryan Construction began modifying the piping associated with the scrubber for Thermal Oxidizer Unit 1. Ryan Construction will be removing and reinstalling the piping to accommodate the modifications to the system that were installed since 2001.

Austgen Electric was onsite revising the control programming of the groundwater treatment plant (GWTP) and in-situ soil vapor extraction (ISVE) systems.

Dave's Tree Service completed removing the overgrown trees and brush adjacent to the perimeter fence around the Off-Site Containment Area (OFCA). The shrubs and tree branches were chipped onsite. MWH reported that the vegetation and chipped wood were disposed of offsite.

MWH resampled residential wells PW-A and PW-Y on Friday, November 15, 2003, for semivolatile organic compounds. MWH reported that pentachlorophenol had been detected in the groundwater samples collected from these wells during the annual residential well sampling event conducted in September 2003.

MWH continued to operate the OFCA ISVE system, vapors through Thermal Oxidizer Unit 2. MWH reported that a temperature probe malfunctioned on November 15, 2003. MWH replaced the probe on November 16, 2003, and resumed operating the system. MWH reported that it was not operating the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) ISVE system because of high water levels in the ONCA. MWH reported that it operated the GWTP at 38 gpm, focusing its dewatering efforts on the ONCA dual-phase extraction (DPE) wells in order to lower the groundwater level in the SBPA.

**Topics of Concern:**

- MWH reported that pentachlorophenol was detected in two residential wells, PW-A and PW-Y, above the Maximum Contaminant Limit in the unvalidated analytical data from the annual residential well sampling event.

**Concern Resolution:**

- MWH resampled residential wells PW-A and PW-Y on Friday, November 15, 2003, for semivolatile organic compounds.

**Upcoming Activities:**

- MWH to remove and dispose of the investigation-derived waste drums from monitoring well installation activities.
- Ryan Construction to complete modifying piping for Thermal Oxidizer Unit 1.
- MWH to continue operating the GWTP and OFCA ISVE system.

- MWH to concentrate on removing water from the DPE wells in order to lower the groundwater level in the SBPA such that operation of the ONCA SBPA ISVE system can resume operation.

Signature: Leigh Peters

Date: November 17, 2003

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**Weekly Oversight Summary Report No. 142**  
**ACS Superfund Site WA57, 46526.238**

**Reporting Period:** Week of November 17, 2003.

**BVSPC O/S Dates:** November 20, 2003 (Mr. Campbell).

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	2	Respondent's General Contractor
US Environmental Protection Agency	1	Federal Regulatory Agency
Black & Veatch Special Projects Corp.	1	Oversight Contractor
Austgen Electric	1	Control System Programmer
Ryan Construction	2	General Contractor

**Construction Activities**

**Major Activities:**

- Ryan Construction continued to modify the piping associated with the scrubber for Thermal Oxidizer Unit 1.
- Austgen Electric performed miscellaneous upgrades to the control systems in the groundwater treatment plant.
- Montgomery Watson Harza increased the flowrate through the groundwater treatment plant to 37 gpm.
- Montgomery Watson Harza temporarily ceased operating the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system because of high groundwater levels.
- Montgomery Watson Harza held a construction coordination meeting on November 20, 2003.

**Activities Performed:**

Ryan Construction continued to reconfigure the piping associated with Thermal Oxidizer Unit 1. Montgomery Watson Harza (MWH) reported that the reconfigured piping will increase the performance of Thermal Oxidizer Unit 1. MWH also reported that Austgen Electric has performed miscellaneous upgrades to control systems in the groundwater treatment plant (GWTP) and will continue to upgrade the control system associated with Thermal Oxidizer Unit 1.

MWH reported that it temporarily ceased operating the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) in-situ soil vapor extraction (ISVE) system for 5 days because of high groundwater levels in the ONCA SBPA. MWH increased the flowrate through the GWTP from 25 gpm to 37 gpm in order to increase the dewatering of the ONCA SBPA. Most of the additional flow came from ONCA SBPA ISVE dual-phase extraction wells. MWH reported that it continued to operate the Off-Site Containment Area ISVE system processing vapors through Thermal Oxidizer Unit 2.

MWH reported that it has observed increasing concentrations of benzene in the lower aquifer in the wetlands area based on recent groundwater monitoring results. MWH reported that it will conduct further investigation in this area in January or February.

MWH confirmed that the house at residential well PW-Y had been connected to city water and that the samples collected during the annual residential well sampling event (September 2003) and the resampling conducted on November 14, 2003, were actually samples from city water, not groundwater from the residential well.

MWH held a construction coordination meeting on November 20, 2003. Other construction coordination meetings were not held during the reporting period because of the lack of activity at the site and the Thanksgiving holiday.

**Topics of Concern:**

- None

**Concern Resolution:**

- None

**Upcoming Activities:**

- Ryan Construction to complete modifications to the piping for Thermal Oxidizer Unit 1.
- Vidimos to install a new flange on Thermal Oxidizer Unit 1's scrubber inlet.
- Austgen to complete upgrades to the control system for the GWTP and ISVE systems.
- MWH to resume operating the ONCA SBPA ISVE system.
- MWH to investigate benzene levels in the lower aquifer below the wetlands area.
- MWH to remove and dispose of the investigation-derived waste drums from monitoring well installation activities.

Signature: Leigh Peters

Date: November 24, 2003

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**FAX****MWH**  
MONTGOMERY WATSON HARZADate: 25-Nov-03

RECEIVED

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L. M. CAMPBELL

27755 Diehl Road  
Suite 300  
Warrenville, IL 60555  
Tel: 630-836-8900  
Fax: 630-836-8959**TO: Construction Meeting Minutes Distribution List****Fax Number**

X	Kevin Adler; U.S. EPA	(312) 353-5541
X	Prabhakar Kasarabada; IDEM	(317) 234-0428
X	Barbara Magel; Karaganis White & Magel, Ltd.	(312) 836-9083
X	Mark Travers; Environ	(312) 853-9025
X	Larry Campbell; Black & Veatch	(312) 346-4781
X	Leigh Peters, Black & Veatch	(312) 346-4781
X	Todd Lewis; MWH	(630) 836-8959
X	Rob Adams; MWH	(312) 831-3021
X	Lee Orosz; MWH	(219) 924-4561
X	Joe Adams; MWH	(303) 410-4100
X	Jon Pohl; MWH	(312) 831-3021
X	Chris Daly; MWH	(312) 831-3021
X	Chad Smith; MWH	(312) 831-3021

From: Peter Vagt

Following please find the minutes from the November 20, 2003 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday December 11, 2003 at the construction trailer at the ACS Site.

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

If you do not receive all pages, or if there are any problems with this transmission, please call (312) 831-3431  
 Number of pages, including cover: 4

**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR NOVEMBER 20, 2003 MEETING  
AMERICAN CHEMICAL SERVICE, NPL SITE  
GRIFFITH, INDIANA**

**MEETING DATE:** Thursday, November 20, 2003

**MEETING TIME:** 3:00 PM

**MEETING LOCATION:** Conference Call

**ATTENDEES:** Kevin Adler – U.S. EPA  
Mark Travers – Environ  
Larry Campbell– BVSPC  
Pete Vagt – MWH  
Joe Willich – MWH  
Lee Orosz – MWH  
Todd Lewis – MWH  
Rob Adams – MWH  
Chad Smith – MWH  
Chris Daly – MWH  
Jon Pohl – MWH

**TOPICS:**

Health and Safety Summary

There have been no health and safety issues at the Site since the last construction meeting on October 30, 2003. Activities at the site have included completing touchups of the floor coating in the groundwater treatment plant (GWTP), operation of the GWTP, operation of the Off-Site Area in-situ soil vapor extraction (ISVE) system and the Still Bottoms Pond Area (SBPA) ISVE system, upgrading of Thermal Oxidizer/Scrubber Unit 1 (Therm Ox 1), repairing the catalytic oxidizer unit, upgrading the GWTP's control logic, and completion of tree and shrub trimming in the Off-Site Area.

Independent Environmental Services (IES) were on-site on November 10<sup>th</sup> to perform a confined space entry in the aeration tank to inspect the diffusers. The confined space entry was performed according to plan and permit.

Groundwater Treatment Plant (GWTP) Status

The GWTP is currently operating at 37 gallons per minute (gpm). The GWTP was operating at 25 gpm until November 17<sup>th</sup> when the flowrate was increased to expedite dewatering in the On-Site Area. Seventeen dual phase extraction (DPE) wells in the SBPA are currently operating to dewater the area. The activated sludge plant (ME-101) is operating normally with the new microbe population that was applied in September. The heat exchanger in T-2 is currently operating to heat ME-101.

U.S. Floors was on-site during the beginning of November to touch up the epoxy floor coating they had applied in October.

Ryan Construction has been onsite intermittently during the last three weeks working on miscellaneous piping tasks around the GWTP. Ryan has also been working on disassembling Therm Ox 1. Therm Ox 1 will be reconfigured to improve the performance of the unit. The unit should be operational again in two to three weeks.

Austgen Electric was onsite during the past three weeks performing miscellaneous upgrades to electrical and control systems at the GWTP.

Dave's Tree Service completed clearing of tree branches and shrubbery around the edge of the Off-Site area at the beginning of November.

#### Off-Site Area/SBPA ISVE Systems

Thermal Oxidizer/Scrubber Unit 2 (Therm Ox 2) was running continuously until November 20<sup>th</sup> when the unit shut down due to malfunction of a dilution air valve. The Off-Site Area ISVE system has been operating continuously since the last meeting (November 6, 2003).

The SBPA ISVE system was been shutdown for five days. The system was shutdown because very little vapor was flowing from the ISVE wells even though the blower capacity was undiminished. An investigation of the system showed that the water level in the On-Site Area is above the well screen of the ISVE wells at many locations, blocking free passage of air and vapors into the wells. MWH has increased the extraction rate from the SBPA DPE wells in order to lower the water level in the On-Site area. The SBPA ISVE system will be started again when water levels have been lowered below the well screens.

#### Private Well Sampling

The results have been received from the September residential well sampling event. The Low levels of pentachlorophenol were detected in two of the residential water supplies. The results appeared anomalous, since one of the water supply of one of these houses has been transferred to municipal water source. Both residences were resampled on November 14<sup>th</sup>. The results of these samples will be provided to the Agencies once they have been received from the laboratory and. The results of all the other samples have been validated and will be submitted to the Agencies.

#### Groundwater Sampling

MWH has recently observed increasing concentrations of benzene in the lower aquifer below the wetlands area. MWH is currently preparing a plan to investigate the lower aquifer. The further investigation will be scheduled to take place in January or February.

#### ORC

MWH anticipates submitting a work plan to the Agencies in December to begin a Chemical Oxidation remedial approach in the upper aquifer in the southeastern part of the site.

**Looking Ahead**

Week of November 24, 2003	<ul style="list-style-type: none"><li>• GWTP/BWES/PGCS operation</li><li>• Off-Site and SBPA ISVE Systems operation</li><li>• Ryan Construction reconfiguring Therm Ox 1</li></ul>
Week of November 10, 2003	<ul style="list-style-type: none"><li>• GWTP/BWES/PGCS operation</li><li>• Off-Site ISVE operation</li><li>• SBPA ISVE operation</li><li>• Ryan Construction reconfiguring Therm Ox 1</li></ul>
Health and Safety Items to Monitor	<ul style="list-style-type: none"><li>• Ryan Construction work in tight spaces around the thermal oxidizer units. Therm Ox 2 will be in operation during work on Therm Ox 1 which presents a potential for electrical hazards and work near hot equipment.</li></ul>

Next Construction Meeting - Thursday, December 11, 2003, 10 a.m.

JDP/PJV/RAA

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**Weekly Oversight Summary Report No. 143**  
**ACS Superfund Site WA57, 46526.238**

**Reporting Period:** Week of November 24, 2003.

**BVSPC O/S Dates:** Cancelled because of limited site activities and Thanksgiving holiday.

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	2	Respondent's General Contractor
Austgen Electric	1	Control System Programmer
Ryan Construction	2	General Contractor

**Construction Activities**

**Major Activities:**

- Ryan Construction continued to modify the piping associated with the scrubber for Thermal Oxidizer Unit 1.
- Austgen Electric performed miscellaneous upgrades to the control systems in the groundwater treatment plant.
- Montgomery Watson Harza resumed operating the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system.
- Montgomery Watson Harza reported that Thermal Oxidizer Unit 2 shut down because of sediment buildup from fouling in the heat exchanger.

**Activities Performed:**

Ryan Construction continued to reconfigure the piping associated with Thermal Oxidizer Unit 1. MWH reported that it observed deterioration in the weld for the main inlet into the scrubber unit. MWH reported that Vidimos will be onsite in the upcoming weeks to install a new flange and repair the damage. MWH also reported that Austgen Electric continued to perform miscellaneous upgrades to control systems in the groundwater treatment plant (GWTP) and will continue to upgrade the control system associated with Thermal Oxidizer Unit 1.

MWH reported that it resumed operating the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) in-situ soil vapor extraction (ISVE) system, pulling vapors from eight of the ISVE wells. MWH increased the flowrate through the GWTP from 25 gpm to 37 gpm in order to increase the dewatering in the ONCA SBPA and allow for the operation of the ONCA SBPA ISVE system.

MWH reported that Thermal Oxidizer Unit 2 shut down on November 26 and 28, 2003, because of high particulate matter in the scrubber quench water. MWH reported that it believes that the particulate matter is from fouling within the heat exchanger unit in tank T-2 which heats the influent water to the activated

sludge tank using the recirculation water from the thermal oxidizer scrubber. MWH reported that it continues to clean out the strainers on the scrubber and that it will monitor the build up from fouling to see if it is reducing over time or if further measures are needed to remove the particulate buildup in the water.

**Topics of Concern:**

- None

**Concern Resolution:**

- None

**Upcoming Activities:**

- Ryan Construction to complete modifications to the piping for Thermal Oxidizer Unit 1.
- Vidimos to install a new flange on Thermal Oxidizer Unit 1's scrubber inlet.
- Austgen to complete upgrades to the control system for the GWTP and ISVE systems.
- MWH to investigate benzene levels in the lower aquifer below the wetlands area.
- MWH to remove and dispose of the investigation-derived waste drums from monitoring well installation activities.

Signature: Leigh Peters

Date: December 2, 2003

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(24) 11/11/03

0905 Arrive Onsite - Overcast  
misty ~~76°F~~ 60°F

Personnel onsite

Lee Orosz	mwH
Terry Frisk	Ryan
Tim Kirkland	Austgen
Terrence Jones	IES
Samuel Jones	IES
Dan Petich	IES
Omar Rodriguez	Dave's Tree Svc
Dan Dull	" " "
Roger Allen	" " "
Kristin Lujovic	" " "
Alan Abascal	" " "
Robt. Cox	Austgen
Larry Campbell	BUSRC
Jerry Clark	Ryan

0910 Disc w/ Lee Orosz - they  
are pumping down water in  
equalization tank in preparation  
for Confined Space entry into tank  
in order to clean diffusers in tank

0930 Roll 50 Photo 1 - Looking West  
showing top of equalization tank  
with entry port uncovered

J. M. Campbell

J. M. Campbell

(25)

0935 Photo 50-2 Looking South showing  
open access port on top of  
equalization tank

1000 Photo 50-3 Looking W at  
Dave's Tree Svc Personnel cutting  
brush from W perimeter fence around  
OFCA

1002 Photo 50-4 Looking S at Dave's  
Tree Svc. personnel loading cut  
brush into truck for removal  
from OFCA

1005 Photo 50-5 Looking W at DTS  
personnel feeding brush into chipper

1010 Photo 50-6 Looking E along  
south fence line of OFCA

1011 Photo 50-7 Looking N along  
W fence line of OFCA after brush  
removal - note vegetation mat in  
foreground

1015 Photo 50-8 Looking SW at  
OFCA W fence line near <sup>man</sup> ~~with~~ 116  
after brush removal Piez.

1020 Photo 50-9 Looking N at  
OFCA E fence line near piez 112  
after brush removal

J. M. Campbell

(26)

- 1310 Photo 50-10 Looking SW  
at Ryan employee removing  
piping for Durr Thruway Unit
- 1311 Photo 50-11 Looking S at  
remaining convoluted piping to  
Durr Unit
- 1312 Photo 50-12 Looking S. at  
piping removed from Durr Unit
- 1415 Photo 50-13 Looking Down  
into equalization tank showing  
IES employee removing diffuser  
from inside tank
- 1416 Photo 50-13<sup>14 pm</sup> Looking down into  
Equalization Tank showing ground-  
level access port in side of tank
- 1420 Photo 50-14<sup>15 pm</sup> Looking down  
from top of equalization tank showing  
IES employees outside tank
- 1426 Photo 50-15<sup>16 pm</sup> Looking N showing  
IES employees outside tank w/ holding  
rope connected to harness on man  
inside tank
- 1427 Photo 50-16<sup>17 pm</sup> Looking N at  
diffusers removed from equalization  
tank

Jim Campbell

1435 Photo 50-18 Looking W at Lee cross  
talking to IES employee  
inside tank <sup>19 pm</sup>

(27)

- 1440 Photo 50-17 Looking W inside  
equalization tank showing IES  
employee cleaning out pipe connector  
on header <sup>20 pm</sup>
- 1445 Photo 50-18 Looking SW showing  
Lee cross drilling out scale inside  
diffuser <sup>21 pm</sup>
- 1455 Photo 50-19 Looking N showing  
Lee cross drilling out scale inside diffuser
- 1456 Photo 50-20<sup>22 pm</sup> Looking inside  
equalization tank showing IES employee  
re-installing cleaned out diffusers on &  
air header <sup>23 pm</sup>
- 1457 Photo 50-21 Looking inside  
equalization tank showing <sup>diffuser</sup> connection  
holes in air header
- 1505 Photo 50-22<sup>24 pm</sup> Looking inside  
equalization tank showing IES  
employee re-installing diffuser onto  
header <sup>25 pm</sup>
- 1511 Photo 50-23 Looking W at entry  
port into equalization tank as IES  
employee emerges from tank
- 1518 Conversation w/ IES employee  
inside tank confirmed that

Jim Campbell

(28)

Testing in LER meter indicat-  
 ing sufficient O<sub>2</sub> w/ NO LER  
 or H<sub>2</sub>S. Testing was done  
 prior to entry and midway  
 thru procedure.

1540 Photo 50-24<sup>26</sup> Looking inside  
 equalization tank showing  
 air bubbling from diffusers  
 (Earlier today there was limited  
 air flow thru diffusers)

1545 Photo 50-25<sup>27</sup> Showing 1E3  
 personnel re installing cover  
 on access port of equalization tank.

1600 Reinstallation of access  
 port cover completed

1605 Lee Orosz started refilling  
 equalization tank &  
 restarting GWTP

1615 Left Site for Day

*Jim Campbell*

(29)

20 NOV 03

1000 Arrive at site - Sunny  
 Clear, Calm

### Personnel On Site

* Lee Orosz	MWH	
Mike Chnoweth	Semilab	
* Todd Lewis	MWH	
Tenay Frist	Ryan	
* Rob Adams	MWH	
* Larry Campbell	BUSSPC	
* Joe Willich	MWH	
Robert Cox	Austgen	

\* Kevin Adler EPA  
 \* Peter Vagt MWH

\* Attend Coast Mtg  
 @ 1505

1030 Roll 51-1 Looking SW at  
 Durr Scrubber unit showing  
 removed piping, open access port  
 and new welded parts

1035 Roll 51-2 Looking SW at  
 Semilab Tech. collecting sample  
 of return activated sludge

1115 Joined Todd Lewis as he conducted  
 a tour of GWTP facilities for his  
 supervision, Joe Willich.

1500 Roll 51-3 Looking NW at  
 Todd Lewis checking electrical  
 connection on Global Thermax unit

*Jim Campbell*

(30)

## 1505 Construction Mtg

## Attendees

\* Those onsite last on pg 29  
+ the following by phone

Mark Travers	PRP
Chad Smith	MWH
John Pohl	MWH
Chris Daly	MWH

HAS No Problems in last 3 wks

- Dave's Tree Svcs - completed trimming shrubs @ fence line - had to provide oversight re Safety Glasses
- U.S. Floor out to make minor repairs & coating near Dorr unit
- Ryan - onsite repairing piping
- IES - onsite to repair diffusers in equalization tank - permitted confined space entry. Campbell noted all went well except the resuser didn't have respirator or SCBA immediately available - was in truck 50' away

Groundwater Treatment Plant

running @ 37 gpm recently  
New bugs in tank working well

JM Campbell

(31)

Expect to be able to increase flow  
Heat exchanger from scrubber is  
on & providing hot water to activator  
Sludge treatment unit.

ISVE Systems

Both units (ONCA & OFCA) are  
running well. Having problem at  
present getting the dilution air  
valve to work properly - expect fix soon.  
The OFCA ISVE system has been  
operating @ 100% this month. However  
the ONCA SBPA ISVE system has  
been down for 4-5 days. High  
groundwater table is above top  
of screens, so can't get vapors  
into wells. Currently pumping  
from 17 1/33 dual phase wells in  
effort to lower groundwater table  
- Ryan has been removing plumbing  
lines & valves on Dorr unit & will  
re-pipe them in a more efficient  
manner - will take 2-3 weeks.

Residential Well Sampling

During last round of sampling,  
PCP was found in water in two

JM Campbell

(32)

residential wells. Both residences were resampled last Friday 11-14-03. Should receive results in 1-2 weeks. MWH found out that Residence #1 (151<sup>me</sup> house on Reader Rd.) is now on city water, not well water. Kevin Adler reported that the Toxic Substances Disease Registry personnel indicated that the threat level for children for PCP  $\approx$  20 ppb, which is greater than concentrations found.

Test results for the semi annual GW sampling are in & validated.

MWH reported that some concentrations of chemicals in lower aquifer are increasing (N. of site). MWH is preparing a work plan to investigate the source of these increasing concentrations. Would expect to do field work in winter (Jan-Feb)

LOOK AHEAD

Ryan to rebuild piping  
JM Campbell

(33)

for Durr unit - 2 wks.

- Plan to increase GW flow thru plant
- MWH preparing work plan for chemical oxidation of site GW plume SE of site
- MWH will probably purchase & install another air pump for OFCA ISVE system in winter
- MWH plans to complete ONCA cover asphalt paving by summer 2004
- May be necessary to add a Phase 2 enhancements to ISVE system after gathering more O&M experience

Next Mtg

~~at~~ Dec 11, 2003 10 AM

Mtg over @ 15:40

1545 With Pete Vajt, + Kevin Adler, visited location of Chem Ox treatment site near Reader Rd.

1615 Left Site for Day

JM Campbell





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 50 Photo #1

Date: 11-11-03 Time: 09:30

Photographer: Larry Campbell

Description: Photo facing west showing top of equalization tank T-102 with entry port uncovered.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 50 Photo #2

Date: 11-11-03 Time: 09:35

Photographer: Larry Campbell

Description: Photo facing south showing open access port on top of equalization tank T-102.





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 50 Photo #3

Date: 11-11-03 Time: 10:00

Photographer: Larry Campbell

Description: Photo facing west showing Dave's Tree  
Service personnel cutting brush from west  
perimeter fence around OFCA.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 50 Photo #4

Date: 11-11-03 Time: 10:02

Photographer: Larry Campbell

Description: Photo facing south showing Dave's Tree  
Service personnel loading cut brush into  
truck for removal from OFCA.





Site: American Chemical Services, Inc.  
 Proj. #: 46526  
 Roll: 50 Photo #5  
 Date: 11-11-03 Time: 10:05  
 Photographer: Larry Campbell  
 Description: Photo facing west showing Dave's Tree  
 Service personnel feeding brush into  
 chipper.



Site: American Chemical Services, Inc.  
 Proj. #: 46526  
 Roll: 50 Photo #6  
 Date: 11-11-03 Time: 10:10  
 Photographer: Larry Campbell  
 Description: Photo facing east showing the south fence  
 line of OFCA after brush removal.





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 50 Photo #7

Date: 11-11-03 Time: 10:11

Photographer: Larry Campbell

Description: Photo facing north showing the west fence line of OFCA after brush removal. Note vegetation mat (brown) in foreground.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 50 Photo #8

Date: 11-11-03 Time: 10:15

Photographer: Larry Campbell

Description: Photo facing southwest showing OFCA west fence line near piezometer 116 after brush removal.





Site: American Chemical Services, Inc.

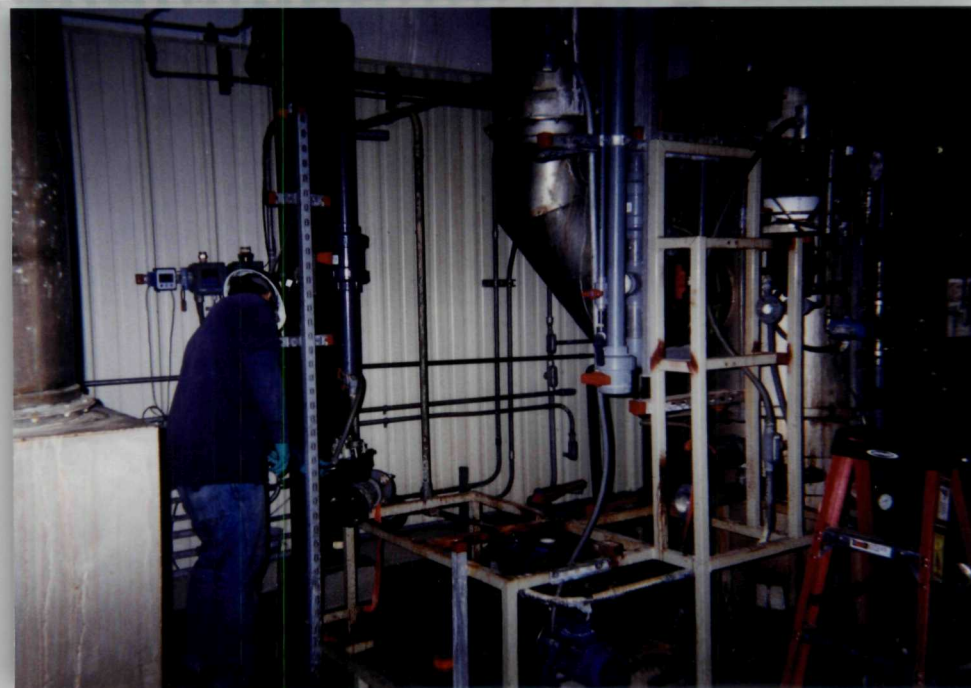
Proj. #: 46526

Roll: 50 Photo #9

Date: 11-11-03 Time: 10:20

Photographer: Larry Campbell

Description: Photo facing north showing OFCA east fence line near piezometer 112 after brush removal.



Site: American Chemical Services, Inc.

Proj. #: 46526

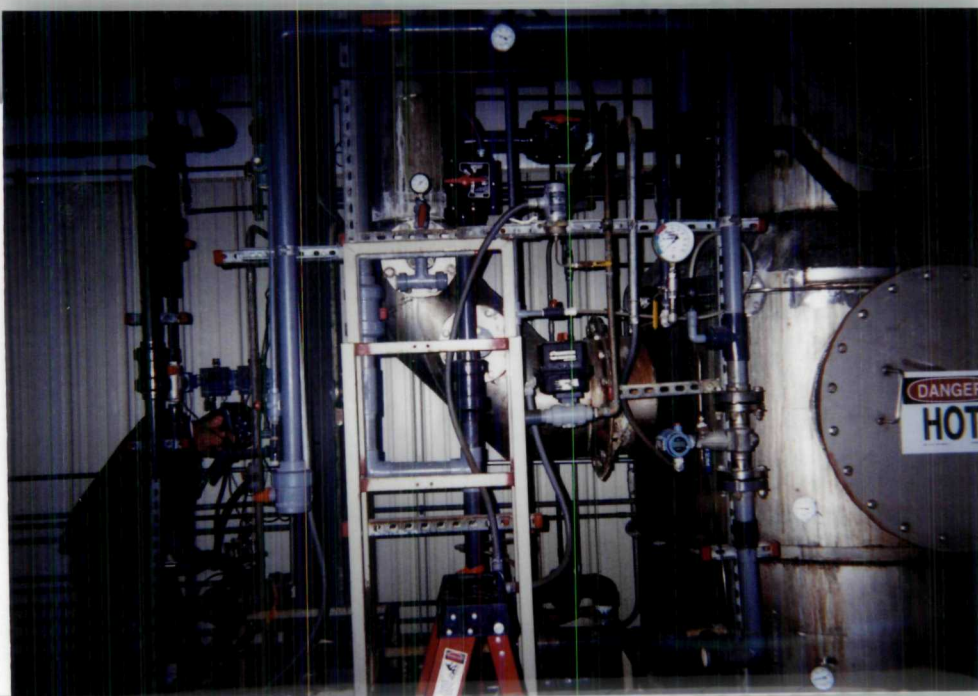
Roll: 50 Photo #10

Date: 11-11-03 Time: 13:10

Photographer: Larry Campbell

Description: Photo facing southwest showing Ryan employee removing piping from Durr-thermox unit 1.





Site: American Chemical Services, Inc.  
 Proj. #: 46526  
 Roll: 50 Photo #11  
 Date: 11-11-03 Time: 13:11  
 Photographer: Larry Campbell  
 Description: Photo facing south showing remaining  
 convoluted piping to Durr thermox unit 1



Site: American Chemical Services, Inc.  
 Proj. #: 46526  
 Roll: 50 Photo #12  
 Date: 11-11-03 Time: 13:12  
 Photographer: Larry Campbell  
 Description: Photo facing south showing piping  
 removed from Durr thermox unit 1.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 50 Photo #13

Date: 11-11-03 Time: 14:15

Photographer: Larry Campbell

Description: Photo facing down into equalization tank  
T-102 showing IES employee removing  
diffusers from inside tank.



Site: American Chemical Services, Inc.

Proj. #: 46526

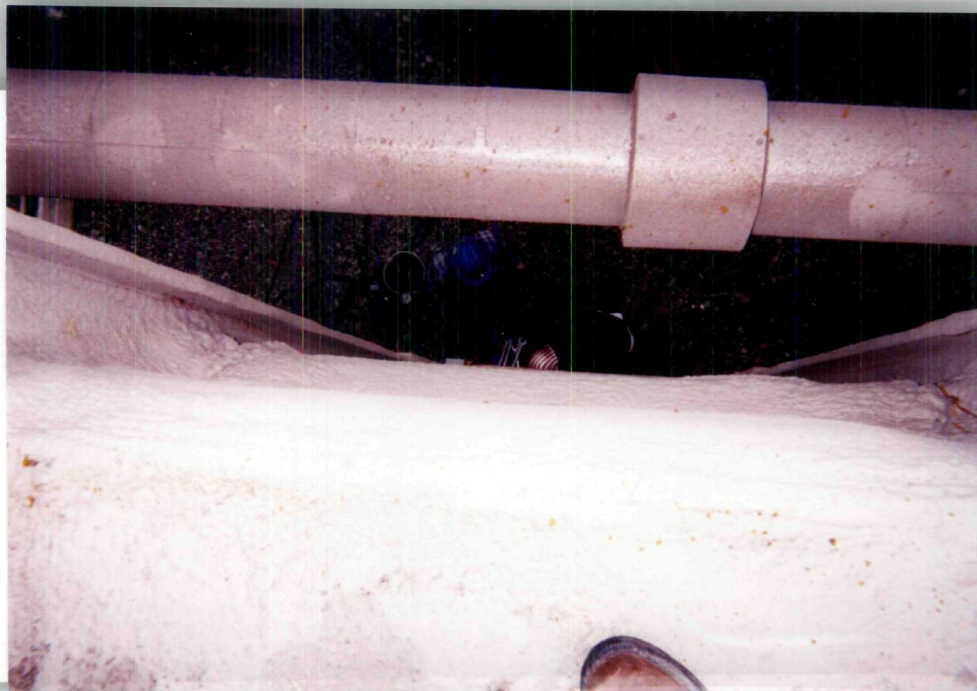
Roll: 50 Photo #14

Date: 11-11-03 Time: 14:16

Photographer: Larry Campbell

Description: Photo facing down into equalization tank  
T-102 showing IES employee moving  
toward ground-level access port in side  
of tank.





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 50 Photo #15

Date: 11-11-03 Time: 14:20

Photographer: Larry Campbell

Description: Photo facing down from top of equalization tank T-102 showing IES employees outside tank.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 50 Photo #16

Date: 11-11-03 Time: 14:26

Photographer: Larry Campbell

Description: Photo facing northwest showing IES employees outside tank holding rope connected to harness on IES employee inside tank.





Site: American Chemical Services, Inc.  
 Proj. #: 46526  
 Roll: 50 Photo #17  
 Date: 11-11-03 Time: 14:27  
 Photographer: Larry Campbell  
 Description: Photo facing north showing diffusers removed from equalization tank T-102.



Site: American Chemical Services, Inc.  
 Proj. #: 46526  
 Roll: 50 Photo #18  
 Date: 11-11-03 Time: 14:35  
 Photographer: Larry Campbell  
 Description: Photo facing west showing Lee Orosz talking to IES employee inside equalization tank T-102.





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 50 Photo #19

Date: 11-11-03 Time: 14:40

Photographer: Larry Campbell

Description: Photo facing west into equalization tank T-102 showing IES employee cleaning out pipe connector on air header.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 50 Photo #20

Date: 11-11-03 Time: 14:45

Photographer: Larry Campbell

Description: Photo facing southwest showing Lee Orosz drilling out scale from inside of diffuser.





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 50 Photo #21

Date: 11-11-03 Time: 14:55

Photographer: Larry Campbell

Description: Photo facing north showing Lee Orosz  
drilling out scale from inside of diffuser.

εε-25



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 50 Photo #22

Date: 11-11-03 Time: 14:56

Photographer: Larry Campbell

Description: Photo facing west inside equalization tank  
T-102 showing IES employee reinstalling  
cleaned out diffuser into air header.

11-11-03





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 50 Photo #23

Date: 11-11-03 Time: 14:57

Photographer: Larry Campbell

Description: Photo facing west into tank T-102 showing diffuser connection holes in air header. Note rope, body harness and respirator.



Site: American Chemical Services, Inc.

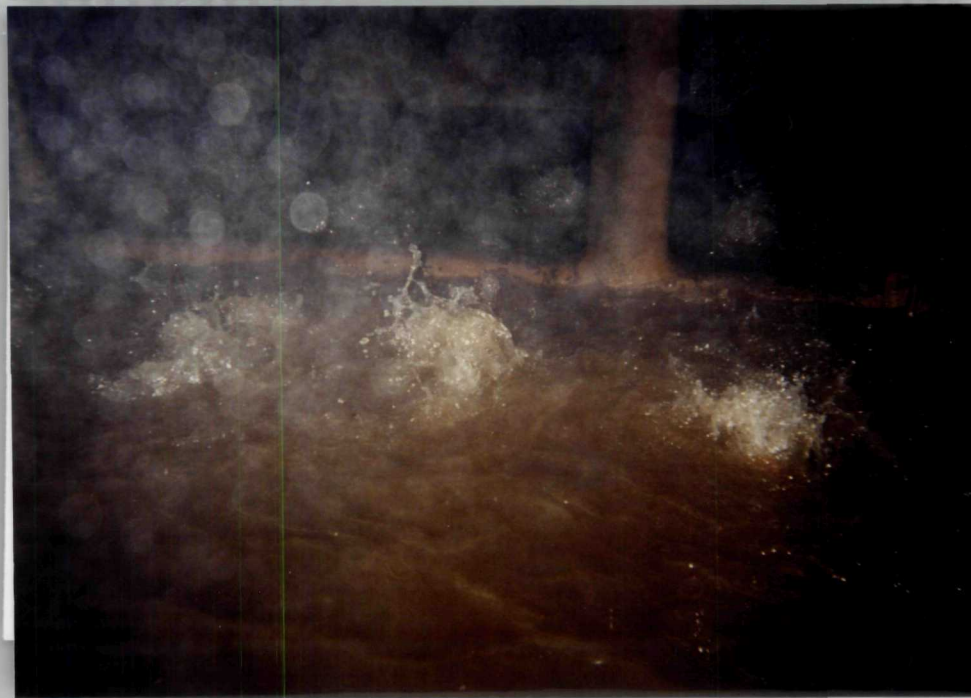
Proj. #: 46526

Roll: 50 Photo #24

Date: 11-11-03 Time: 15:05

Photographer: Larry Campbell

Description: Photo facing west inside equalization tank T-102 showing IES employee reinstalling diffuser into air header.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 50 Photo #25

Date: 11-11-03 Time: 15:11

Photographer: Larry Campbell

Description: Photo facing west showing IES employee emerging from ground-level entry port into equalization tank T-102.

Site: American Chemical Services, Inc.

Proj. #: 46526

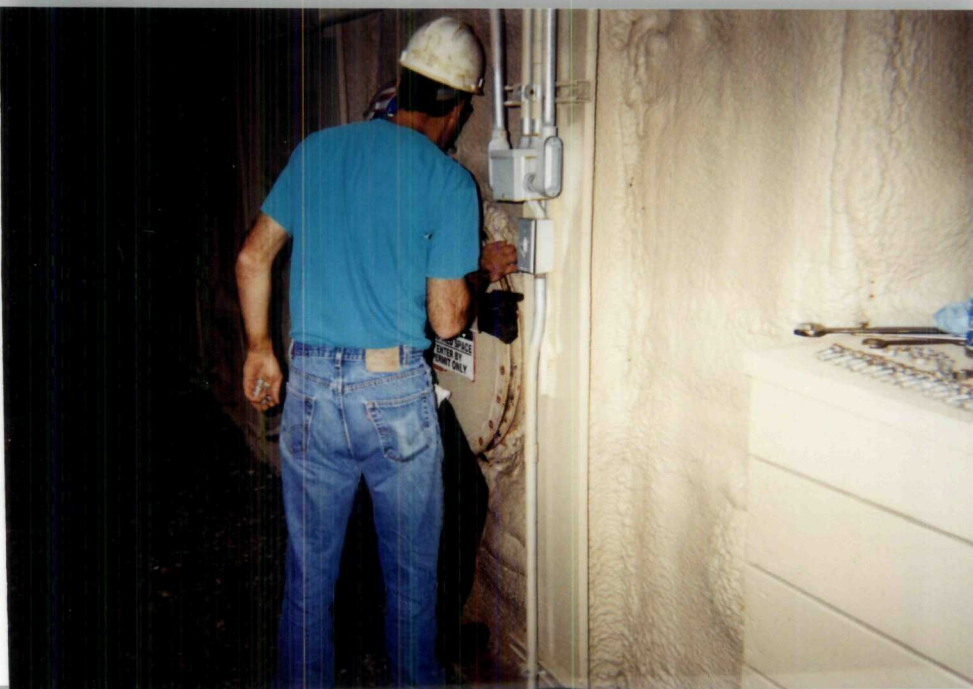
Roll: 50 Photo #26

Date: 11-11-03 Time: 15:40

Photographer: Larry Campbell

Description: Photo facing west inside tank T-102 showing air bubbling from diffusers. Prior to cleanout, there was limited air flow thru the diffusers.





Site: American Chemical Services, Inc.

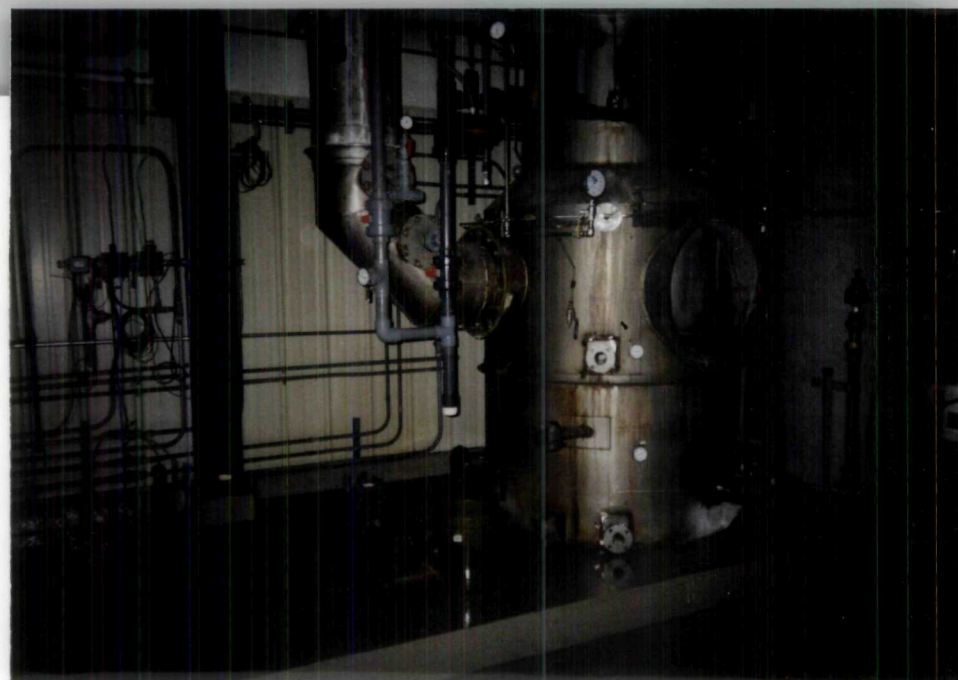
Proj. #: 46526

Roll: 50 Photo #27

Date: 11-11-03 Time: 15:45

Photographer: Larry Campbell

Description: Photo facing southwest showing IES personnel reinstalling cover on access port in side of equalization tank T-102.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 51 Photo #1

Date: 11-20-03 Time: 10:30

Photographer: Larry Campbell

Description: Photo facing southwest showing removed piping, open access port, and new welded ports on Durr Thermox Unit 1.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 51 Photo #2

Date: 11-20-03 Time: 10:35

Photographer: Larry Campbell

Description: Photo facing southwest showing Semilab technician collecting sample of returned activated sludge on top of bio tank.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 51 Photo #3

Date: 11-20-03 Time: 15:00

Photographer: Larry Campbell

Description: Photo facing northwest showing Todd Lewis checking the electrical connections on Global Thermox Unit 2.